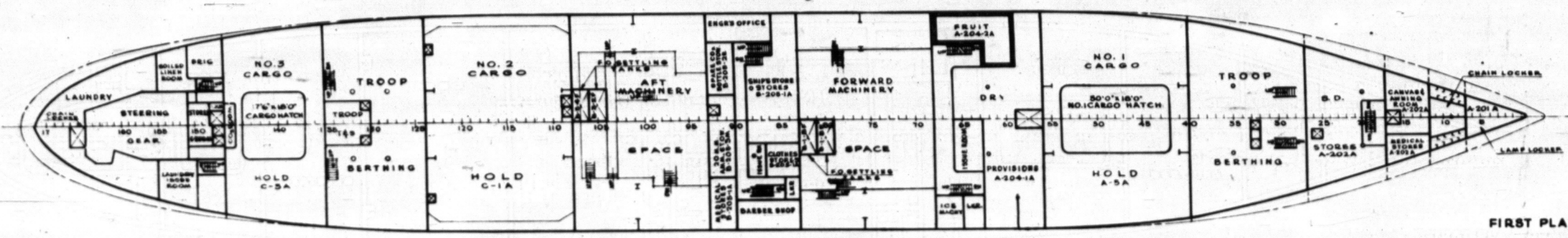


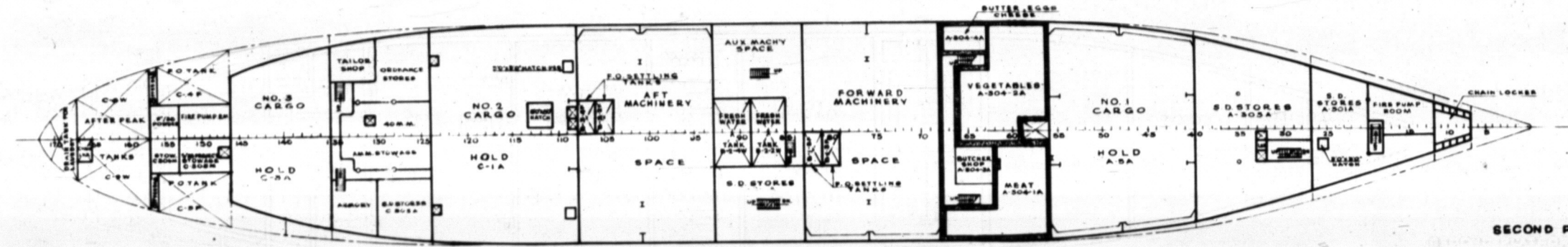


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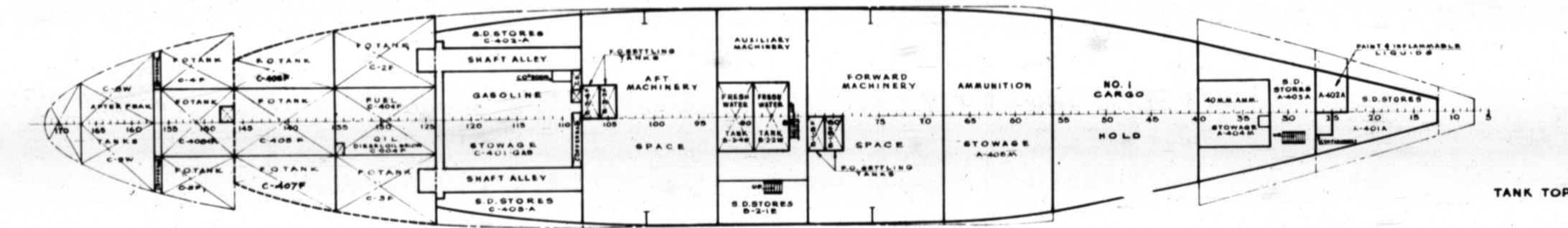
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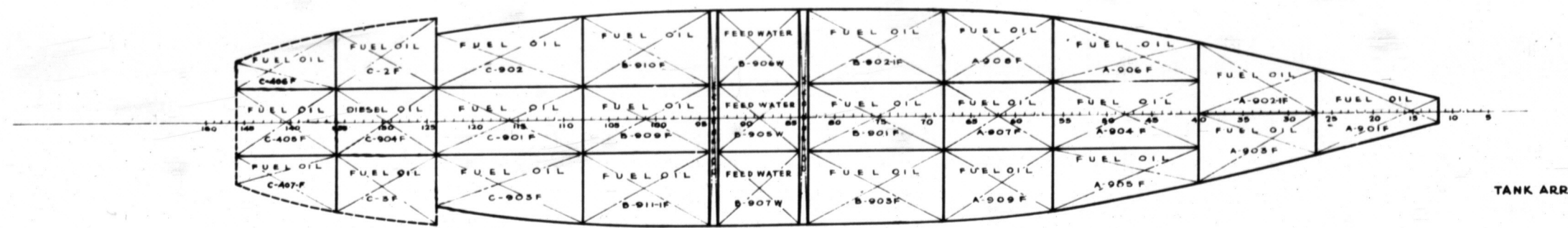
FIRST PLATFORM



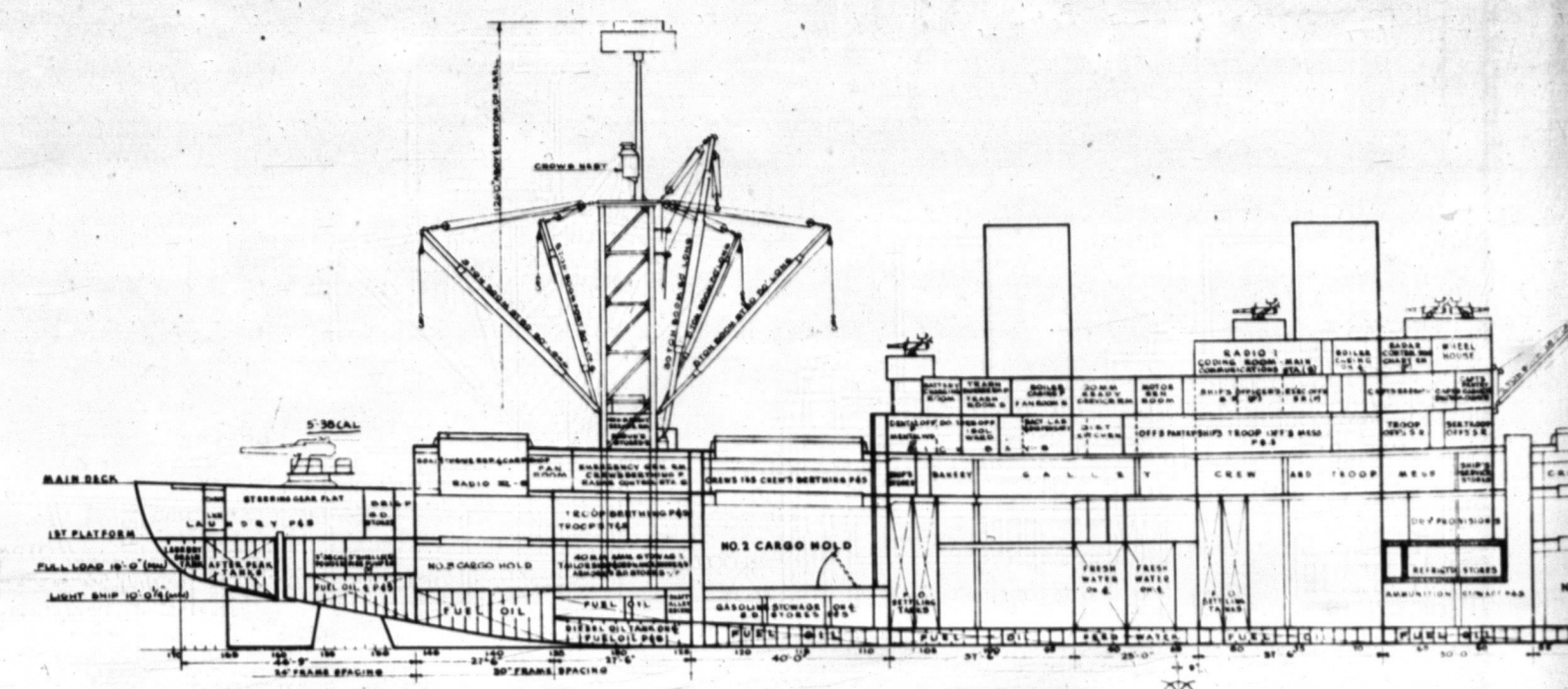
SECOND PLATFORM



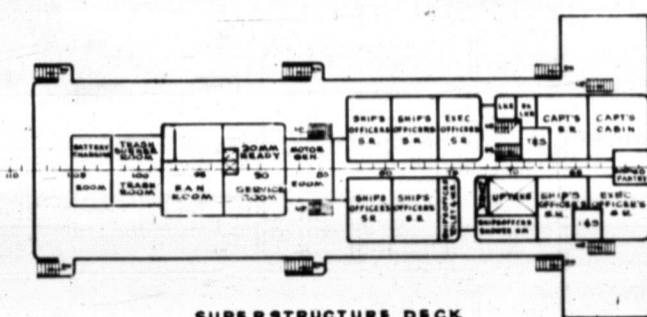
TANK TOP



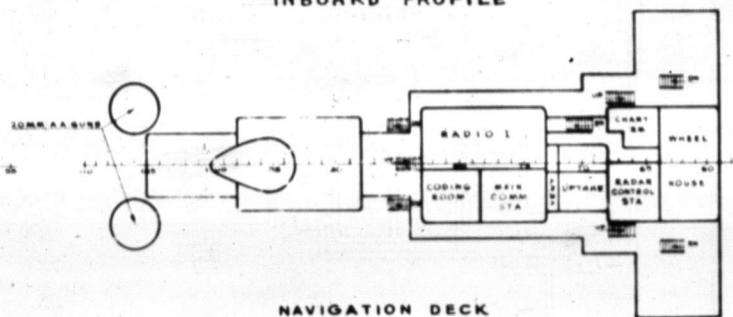
TANK ARRANGEMENT



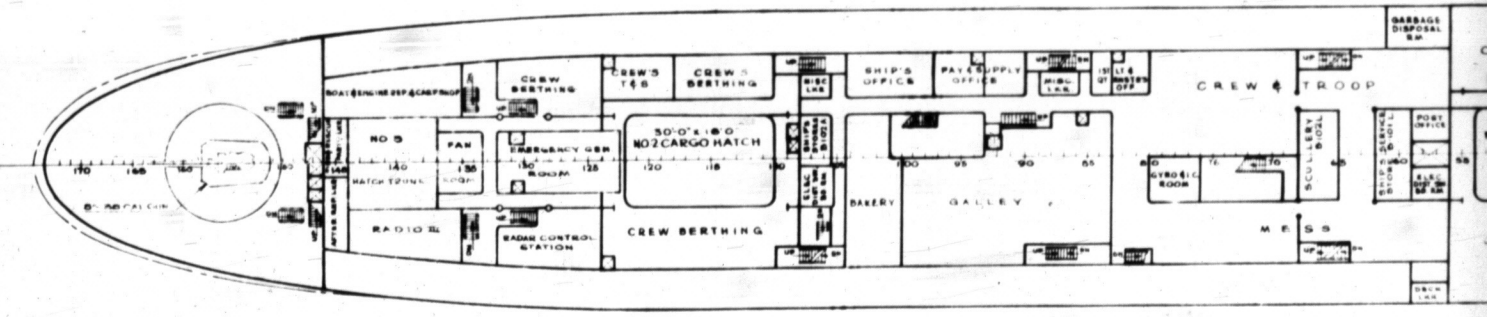
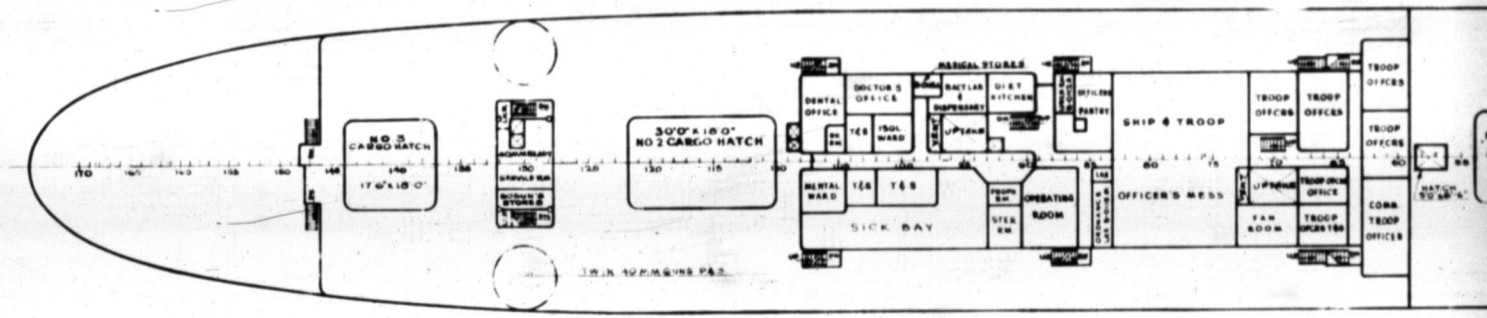
INBOARD PROFILE

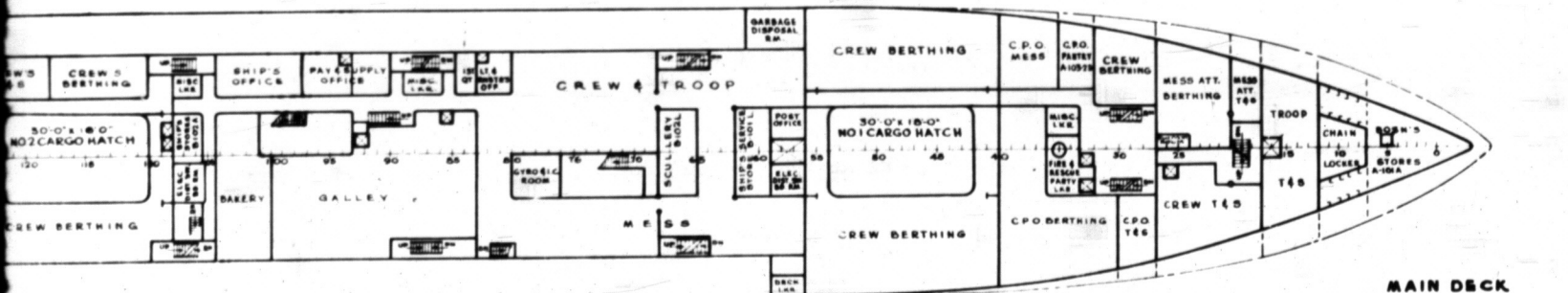


SUPERSTRUCTURE DECK



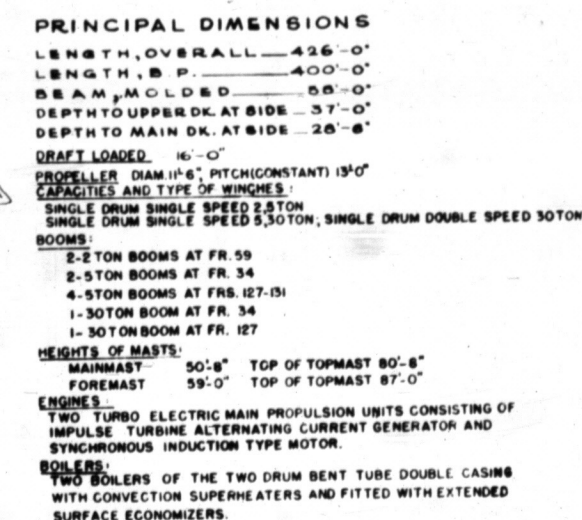
NAVIGATION DECK





RESERVE FEED WATER, FRESH WATER & SALT WATER BALLAST TANK									
TANK NO.	LOCATION (YEARS)	FULL CAPACITY			VLEET C.Y. GROSS NET OF KEEL		LONGH C.Y.		APT.
		GALLONS	TONS 2800	TONS 2800			FWD	AFT	
RESERVE FEED WATER TANKS									
B-003W	84- 93(E)	8960	55.3	34.2	1.66				9.50
B-906E	84- 93(F)	9180	54.0	34.9	1.88				9.36
B-907W	84- 93(S)	9150	54.0	34.9	1.56				9.36
TOTAL		27260	101.3	104.0					
FRESH WATER TANKS									
B-2-2 W	85-09(E)	22660	84.1	86.5	11.97				5.77
B-2-4 W	89-09(S)	22690	84.5	86.7	11.97				15.77
TOTAL		45350	168.6	173.2					
SALT WATER BALLAST TANKS									
A - 1W	STEM-126	14210	57.8	54.5	15.26			187.55	
C - 8W	157-167(E)	15170	58.0	60.2	17.62				185.44
C - 9W	157-167(S)	15280	56.7	58.4	17.76				185.44
TOTAL		45240	166.0	172.9					

STORES FOR PERSONNEL						
COMPT NO.	SPACE	LOCATION (FRAME #)	DECK	SALE VOLUME CU FT	LOSS % C.V. P (1) Q (2)	PER SQUAD (3)
B-102A	MEDICAL STORES	12-17 S	1ST PLAT	850	171.56	50
B-101-A	SHIP'S STORES	105-108 P	MAIN DEK.	600	55.25	35
B-101-L	SHIPS SERVICE STORE	59-62 P4S	MAIN BK	1,070	60.50	33
B-209-A	CLOTHES STORES	53-56 G	1ST PLAT.	640		0.56
B-209-A	MEDICAL STORES	90-95 P	1ST PLAT.	880		17.00
B-209-A	SHIP'S STORES	53-59 P4S	1ST PLAT	3,280		2.29
B-209-A	MEDICAL STORES	67-90 P	UPPER DEK.	190		33.50
TOTAL				9,390		



GEN
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TOP OF INNER BOT
BEAMS AND HATCH
SIDE, AND TO BULK
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3. THE CAPACITY
FEET ARE BALE
THE FOLLOWING
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" "
" "
" "
BAR
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15M WATER & SALT WATER BALLAST TANKS						
NO.	TOTAL CAPACITY		NET C.V.		LONG C.V.	
	FRONT SECTION	REAR SECTION	AMOUNT	DATE OF REEL	FWD	APT
NO. 8						
50	33.3	34.2	1.86			9.50
50	34.0	34.9	1.88			9.58
50	34.0	34.9	1.86			9.58
60	101.8	104.0				
NO. 9						
50	84.1	86.5	11.57			5.77
90	84.5	86.7	11.57			15.77
80	168.4	173.2				
NO. 10						
50	52.8	54.3	15.26		187.55	
50	58.5	60.2	17.82			183.49
50	56.7	58.4	17.74			183.49
60	168.0	172.9				

STORES FOR PERSONNEL							
COMPT NO.	SPACE	LOCATION (FRAME)	DECK	SALE VOLUME CU FT.	1980 C.V.	PER CENT OF TOTAL	VERTICAL SPACE OF TOTAL
A-202-A	MEDICAL STORES	12-17 S	1ST PLAT.	850	171.56	30.0	23.3
B-101-A	SHIP'S STORES	105-108 P	MAIN DEK.	900		55.25	53.8
B-101-L	SHIPS SERVICE STORE	59-62 P45	MAIN DEK.	1,070	60.50		33.8
B-205-A	CLOTHES STORE	55-66 P	1ST PLAT.	640		0.36	24.3
B-205-A	MEDICAL STORES	90-95 P	1ST PLAT.	880		17.00	24.2
B-205-A	SHIP'S STORE STORES	55-59 P45	1ST PLAT.	3,280		2.29	24.3
B-0105-A	MEDICAL STORES	97-90 P	UPPER DEK.	190		33.50	41.0
TOTAL				7,390			



PRINCIPAL DIMENSIONS

LENGTH, OVERALL 426'-0"
LENGTH, S.F. 400'-0"
B.E.A.M. W.C.L. 8'-0"
DEPTH TO UPPER DEK. AT SIDE 37'-0"
DEPTH TO MAIN CK. AT SIDE 28'-0"

DRAFT LOADED 16'-0"

PROPELLER DIAM. 16'-6" PITCH (CONSTANT) 13'-0"

CAPACITIES AND TYPE OF WINGHES:

SINGLE DRUM SINGLE SPEED 2.5TON
SINGLE DRUM SINGLE SPEED 5.5TON; SINGLE DRUM DOUBLE SPEED 50TON
BOOMS:

2-2TON BOOMS AT FR. 59
2-5TON BOOMS AT FR. 34
4-5TON BOOMS AT FR. 127-51
1-30TON BOOM AT FR. 34
1-30TON BOOM AT FR. 127

HEIGHTS OF MASTS:

MAINMAST 50'-8" TOP OF TOPMAST 80'-8"
FOREMAST 59'-0" TOP OF TOPMAST 87'-0"

ENGINES:

TWO TURBO ELECTRIC MAIN PROPULSION UNITS CONSISTING OF
HORIZONTAL TURBINE ALTERNATING CURRENT GENERATOR AND
SYNCHRONOUS INDUCTION TYPE MOTOR.

BOILERS:

TWO BOILERS OF THE TWO DRUM BENT TUBE DOUBLE CASING
WITH CONVECTION SUPERHEATERS AND FITTED WITH EXTENDED
SURFACE ECONOMIZERS.

ALTERATIONS

ITON	2240 LBS.
ITON SALT WATER	55CU.FT.
I * FRESH "	36 " "
I * FUEL OIL	37 " "
I * DIESEL OIL	4196 " "
IBARREL	42GALS.
ICUBIC FOOT	7.48 "

ALT NO.	HAZEL	TEC.	DESCRIPTION	MADE BY	DESIGN AGENT	USMC
					DATE APPLD	DATE /APPR
A	2,3		DEADWEIGHT SCALE AND MACHINERY DATA ADDED EFFECTIVE 1485-1983	ARM	12-74	
B	2,3		LIGHT SHIP & DEADWEIGHT TONNAGE ALTERED TO AGREE WITH 2ND EDITIONAL OF DEADWEIGHT DATA EFFECTIVE 1485-1987	ARM	1-1-85	

1913	1013	52		
1912	1912	51		
1911	1911	50		
1910	1910	49		
1909	1909	48		
1908	1908	47		
1907	1907	46		
1906	1906	45		
1905	1905	44		
1904	1904	43		
1903	1903	42		
1902	1902	41		
1901	1901	40		
1900	1900	39		
1899	1899	38		
1898	1898	37		
1897	1897	36		
1896	1896	35		
1895	1895	34		
1894	1894	33		
1893	1893	32		
1892	1892	31		
1891	1891	30		
1890	1890	29		
1889	1889	28		
1888	1888	27		
1887	1887	26		
1886	1886	25		
1885	1885	24		
1884	1884	23		
1883	1883	22		
1882	1882	21		
USMC	BLOD	USN	NAME	CONTRACTOR

COMBAT LOADED CARGO VESSEL
DESIGN S4-SE2-BE1
UNITED STATES MARITIME COMMISSION
WEST COAST REGIONAL OFFICE
OAKLAND, CALIFORNIA

CAPACITY PLAN

**U.S.S. LUMEN
AKA 30**

P. L. JOSLYN
M. J. RYAN

MARINE ENGINEERS NAVAL ARCHITECTS
148 NEW MONTGOMERY ST. SAN FRANCISCO, CALIF.

PLAN NO. BE1-S 2901-3 ALT. B

DRAWN BY *R.F. Crowell* SCALE $\frac{1}{8}" = 1' - 0"$

TRACED BY DATE Jan 14 1964

MAILED BY _____ DATE _____

CHECKER Erna SUPERVISOR W. J. R.

APPROVED [Signature] APPROVED [Signature]

APPROVALS

USMC

USMC

ABS Estorlin 1/14/40

USCG *for H. E. S. Chair*

[illegible]

U S M C PLAN NUMBER

U. S. M. C. TEAM NUMBER

1882-S 29-172	ALT.
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BUREAU OF CUBIC PLAN NUMBERS

BUREAU OF SHIPS PLAN NUMBER

AKA 21-S29C]-437166 ALT.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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NO.	PLAN NO.	TITLE
REFERENCE PLANS		